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Utgåva 1

**Rörledningar – Spirallindade metallslangar och slanganslutningar (ISO 15465:2004)**

**Pipework – Stripwound metal hoses and hose assemblies (ISO 15465:2004)**

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The European Standard EN ISO 15465:2004 has the status of a Swedish Standard. This document contains the official English version of EN ISO 15465:2004.

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EUROPEAN STANDARD  
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**EN ISO 15465**

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English version

**Pipework - Stripwound metal hoses and hose assemblies  
(ISO 15465:2004)**

Tuyauteries - Tuyaux et tuyauteries métalliques flexibles  
agrafés (ISO 15465:2004)

Rohrleitungen - Gewickelte Metallschläuche und  
Metallschlauchleitungen (ISO 15465:2004)

This European Standard was approved by CEN on 1 March 2004.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

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## Foreword

This document (EN ISO 15465:2004) has been prepared by Technical Committee ISO/TC 5 "Ferrous metal pipes and metallic fittings" in collaboration with Technical Committee CEN/TC 342 "Metal hoses, hose assemblies, bellows and expansion joints", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2004, and conflicting national standards shall be withdrawn at the latest by August 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## Endorsement notice

The text of ISO 15465:2004 has been approved by CEN as EN ISO 15465:2004 without any modifications.

## Introduction

It was decided to produce an International Standard under the Vienna Agreement, on technical cooperation between ISO and the European Committee for Standardization, CEN, in order to maintain one document. The opportunity was taken to replace all existing stripwound standards into this single document and to reformat it such that its layout is similar to the International Standard for corrugated hose, ISO 10380. At the same time, additional information has been included which was not available when the replaced standards were originally produced.

This document is a base standard for stripwound metal hoses and hose assemblies for general purposes.

# Pipework — Stripwound metal hoses and hose assemblies

## 1 Scope

This International Standard specifies the requirements for the design, manufacture and testing of four principal types of stripwound metal hose and hose assemblies, of which only one type is for pressure applications. The four are: single overlap, unpacked and packed; double overlap, unpacked and packed, the last of these having maximum allowable pressures of up to 40 bar.

These hoses and hose assemblies may be supplied in nominal sizes from DN 6 to DN 500 and may operate at temperatures up to 600 °C dependent on materials of construction.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 1634-1, *Wrought copper and copper alloy plate, sheet and strip — Part 1: Technical conditions of delivery for plate, sheet and strip for general purposes*

ISO 2081, *Metallic coatings — Electroplated coatings of zinc on iron or steel*

ISO 6317, *Hot-rolled carbon steel strip of commercial and drawing qualities*

ISO 7369, *Pipework — Metal hoses and hose assemblies — Vocabulary*

ISO 9328-5, *Steel plates and strips for pressure purposes — Technical delivery conditions — Part 5: Austenitic steels*

ISO 10380, *Pipework — Corrugated metal hoses and hose assemblies*

EN 10028-7, *Flat products made of steels for pressure purposes — Part 7: Stainless steels*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7369 apply.

## 4 Information to be supplied by the purchaser

4.1 The purchaser shall state the following in enquiries and orders

- a) application;
- b) nominal size and hose assembly length and whether measured in mid- or extended position;

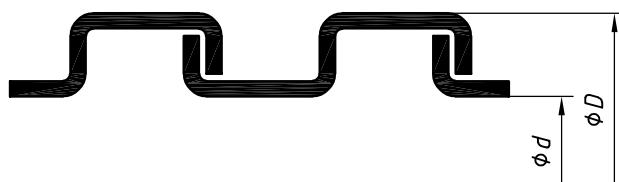
- c) hose type;
- d) maximum operating pressure;
- e) temperature range;
- f) materials;
- g) type of fitting.

**4.2** Dependent on the application the purchaser shall provide the following information

- a) whether additional testing is required;
- b) service life;
- c) product to be conveyed;
- d) product velocity;
- e) any special information concerning choice of materials;
- f) movement and/or vibration;
- g) any additional requirements for cleaning and post test treatment;
- h) requirements for test certificates;
- i) if a coloured cover or other identification is required;
- j) any special requirements for packaging;
- k) requirements for user instructions.

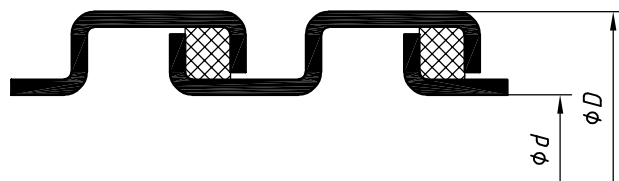
## 5 Hose types

**5.1 Type SOU:** single overlap, unpacked — see Figure 1



**Figure 1 — Cross-section of a type SOU, single overlap, unpacked hose**

**5.2 Type SOP:** single overlap, packed — see Figure 2



**Figure 2 — Cross-section of a type SOP, single overlap, packed hose**